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<120> Novel Sequence Variants of the Human Beta 2-Adrenergic Receptor Gene and Use Thereof

<130> 101195-2

<140> US 09/582,719

<141> 2000-06-29

<150> PCT/DE98/03818

<151> 1998-12-30

<150> DE 197 58 401.2

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gggcggacgg ggcatggact ccgcagatct tccaagttct gcttgaagga cacaaagcc      2400

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gttaacattg tgcatgtgat ccaggataac ctcatccgta aggaagttta catcctccta     2520

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<212> DNA

<213> human genomic clone

<220>

<221> mutation

<222> (1)..(3451)

<223> variant of the human beta2-adrenergic receptor gene with mutation
      s in positions 1541, 1568, 1633, 1666


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tggcacaacc cgaaagatta acaaactatc cagcagatga aaggattttt tttagtttca     300

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gtgagtgatg ccacactctc aagagttaaa aacaaacaa caaaaaaatt aaaacaaaag     420

cacacaactt tctctctctg tcccaaaata catacttgca taccccgct ccagataaaa      480

tccaaagggt aaaactgtct tcatgcctgc aaattcctaa ggagggcacc taaagtactt     540

gacagcgagt gtgctgagga aatcggcagc tgttgaagtc acctcctgtg ctcttgccaa     600

atgtttgaaa gggaatacac tgggttaccg ggtgtatgtt gggaggggag cattatcagt     660

gctcgggtga ggcaagttcg gagtacccag atggagacat ccgtgtctgt gtcgctctgg     720

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<212> DNA

<213> human genomic clone

<220>

<221> mutation

<222> (1)..(3451)

<223> variant of the human beta2-adrenergic receptor gene with mutation
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tgaaccatat gaatttgcca ttttggtaag tcacagacgc cagatggtgg caatttcaca     240

tggcgcaacc cgaaagatta acaaactatc cagcagatga aaggattttt tttagtttca     300

ttgggtttac tgaagaaatt gtttgaattc tcattgcatc tccagttcaa cagataatga     360

gtgagtgatg ccacactctc aagagttaaa aacaaaacaa caaaaaaatt aaaacaaaag     420

cacacaactt tctctctctg tcccaaaata catacttgca taccccccgct ccagataaaa     480

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gacagcgagt gtgctgagga aatcagcagc tgttgaagtc acctcctgtg ctcttgccaa     600

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gctcgggtga ggcaagttcg gagtacccag atggagacat ccgtgtctgt gtcgctctgg     720

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<211> 3451

<212> DNA

<213> human genomic clone

<220>

<221> mutation

<222> (1)..(3451)

<223> variant of the human beta2-adrenergic receptor gene with mutation
      s in positions 1541, 1568, 1633, 1666

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tggcacaacc cgaaagatta acaaactatc cagcagatga aggattttt tttagtttca   300

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<213> Artificial

<220>

<221> primer_bind

<222> (1)..(27)

<223> primer ADRBR-F1 for amplification of fragment I

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<210> 9

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<220>

<221> primer_bind

<222> (1)..(23)

<223> primer ADRBR-R1 for amplification of fragment I

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<210> 10

<211> 22

<212> DNA

<213> Artificial

<220>

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<222> (1)..(22)

<223> primer ADRBR-F2 for amplification of fragment II

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<210> 11

<211> 24

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<220>

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<222> (1)..(24)

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<210> 12

<211> 19

<212> DNA

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<220>

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<222> (1)..(19)

<223> primer ADRBR-F3 for amplification of fragment III

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<211> 22

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<221> primer_bind

<222> (1)..(22)

<223> primer ADRBR-R2 for amplification of fragment III

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<210> 14

<211> 21

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<220>

<221> primer_bind

<222> (1)..(21)

<223> primer ADRBR-F8 for amplification of fragment VIII

<400> 14
ggtactgtgc ctagcgataa c   21

<210> 15

<211> 28

<212> DNA

<213> Artificial

<220>

<221> primer_bind

<222> (1)..(28)

<223> primer ADRBR-R8 for amplification of fragment VIII

<400> 15
taaaataccc cgtgtgagca aataagag   28

<210> 16

<211> 20

<212> DNA

<213> Artificial

<220>

<221> primer_bind

<222> (1)..(20)

<223> primer ADRBR-F4 for amplification of fragment IV

<400> 16
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<210> 17

<211> 21

<212> DNA

<213> Artificial

<220>

<221> primer_bind

<222> (1)..(21)

<223> primer ADRBR-R4 for amplification of fragment IV

<400> 17
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<210> 18

<211> 22

<212> DNA

<213> Artificial

<220>

<221> primer_bind

<222> (1)..(22)

<223> primer ADRBR-F7 for amplification of fragment VII

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<210> 19

<211> 23

<212> DNA

<213> Artificial

<220>

<221> primer_bind

<222> (1)..(23)

<223> primer ADRBR-R7 for amplification of fragment VII

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<210> 20

<211> 17

<212> DNA

<213> Artificial

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<221> primer_bind

<222> (1)..(17)

<223> primer ADRBR-F5 for amplification of fragment V

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<210> 21

<211> 18

<212> DNA

<213> Artificial

<220>

<221> primer_bind

<222> (1)..(18)

<223> primer ADRBR-R5 for amplification of fragment V

<400> 21
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<210> 22

<211> 22

<212> DNA

<213> Artificial

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<221> primer_bind

<222> (1)..(22)

<223> primer ADRBR-R6 for amplification of fragment VI

<400> 22
gctactttgc cattacttca cc   22

<210> 23

<211> 26

<212> DNA

<213> Artificial

<220>

<221> primer_bind

<222> (1)..(26)

<223> primer ADRBR-R6 for amplification of fragment VI

<400> 23
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